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....EI UPDATES: Seeds

Updates on Agricultural Resources and Environmental Indicators

Natural Resources and Environment Division Economic Research Service, U.S. Department of Agriculture 1995 Number 4

1994 Seed Use, Costs, and Trade

- Seed costs per acre were higher in 1994 because of higher seed prices paid by farmers and slighty higher seeding rates per acre for corn and wheat.
- Seed use in the 1994/95 crop year for eight major field crops is expected to be similar to 1993/94.
- U.S. seed trade balance in 1994 fell 4 percent to \$394 million compared with 1993.

Farm operators surveyed in the 1994 Cropping Practices Survey provided information on seeding rates and costs for corn, soybeans, cotton, wheat, and fall potatoes. The survey covered major States accounting for 71-94 percent of the acreage in these crops.

Seed cost per acre varied among the surveyed States due to differences in seeding rates and seed prices as affected by geographic location and availability of moisture during the growing season. Areas with plentiful moisture tend to support heavier seeding rates.

Average seeding rates and seed cost per acre for major field crops, in 1994 were as follows: Corn--average seeding rate was 25,824 kernels per acre, up 1 percent from 1993. The average seed cost per acre was \$23.54, up 4 percent from 1993, reflecting higher corn seed prices and corn seeding rates. Soybeans--average seeding rate in 1994 was 69

pounds per acre, same as in 1993. The average seed cost per acre was \$17.25, up 6 percent, due to 10-percent increase in soybean seed price. Spring wheat--average seed cost per acre was \$10.11, up 18 percent from last year, as spring wheat seed price increased 23 percent. Higher seeding rate per acre also contributed to increased seeding cost. Cotton--the average seeding rate, at 16 pounds per acre, remained unchanged in 1994. Average seed cost per acre, on the other hand, was \$9.49, slightly higher than 1993, due to slight increase in cottonseed price in 1994. Fall potatoes--the average seeding rate was 21 cwt. per acre, 1 cwt. per acre lower than in 1993. Seed cost per acre was \$210, up 4 percent from 1993, due to a 19-percent jump in the seed potato price. Winter wheat--average seeding cost, at \$7.68 per acre, was 7 percent lower than in 1993, due to lower seeding rate per acre.

Total seed consumption in the 1993/94 crop year for eight major crops (corn, sorghum, soybeans, barley, oats, wheat, rice, and cotton) was 6.3 million tons and is expected to be the same in the 1994/95 crop year.

The value of total seed imports in 1994 rose 9 percent, whereas the value of seed exports increased less than 1 percent compared with 1993. As a result, U.S. net seed trade balance in 1994 fell 4 percent to \$394 million.

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About AREI UPDATES

AREI UPDATES is a periodic series which supplements and updates information Agricultural Resources and Environmental Indicators (AREI), USDA, ERS, AH-705, Dec. 1994. UPDATES report recent data from surveys of farm operators and others knowledgeable about changing agricultural resource use and conditions, with only minimal interpretation or analysis. Please contact the individual listed at the end of the text for additional information about the data in this UPDATE. If you would like to be added to the mailing list or have other questions about AREI UPDATES or AREI, contact Richard Magleby, (202) 219-0436.

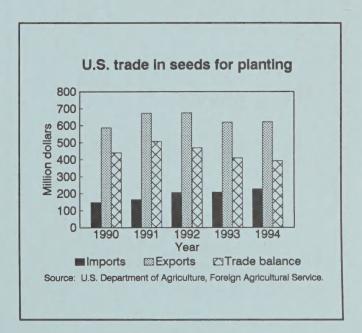


Table 1--Corn for grain seeding rates, plant population, and seed cost per acre, 1994 1/

1,000 Illinois 11,600 Indiana 6,100 Iowa 13,000 Michigan 2,550 Minnesota 7,000 Missouri 2,400 Nebraska 8,600 Ohio 3,700 Wisconsin 3,750 1994 average 62,500		per	population per acre	per
ana (1,1,2) gan (2,1) bouri (2,1) aska (3,1) Dakota (3,1) nosin (3,1) average (62,1)	1,000	Kernels	Number	Dollars
igan 13, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	11,600	26, 151		23.33
igan 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	6,100	25,706	22,800	22.38
igan 2, sesota 7, ouri 2, aska 8, aska 3, n Dakota 3, onsin 3,	13,000	26,553		24.65
sota 7, ouri 2, aska 8, aska 3, n Dakota 3, onsin 3, average 62,	2,550	25,197		27.39
ouri 2, aska 8, 3, bekota 3, onsin 3, average 62,	2,000	28,065		25.92
aska 8, 3, 1 Dakota 3, onsin 3, average 62,	2,400	23,282		21.70
3, one of the state of the stat	8,600	24,745		22.80
, y , 2,75	3,700	26,841		23.94
3, age 62,	3,800	20,993		19.32
average 62,	3,750	56,709		21.98
average oc,	42 EDD	25 02/	003 66	22 E/
	57 350	25, 55	22,300	22.53
average 62.	62,850	25,304	22.030	21.35
200				

^{1/} States listed planted 79 percent of U.S. corn acres in 1994. 2/ Preliminary.

Table 2--Soybean seeding rates, seed cost per acre, percent of seed purchased, and treated with pesticide, 1994 1/

State	Acres planted 2/	Rate per acre	Cost per acre 3/	with purchased seed	treated With pesticide
	1,000	Pounds	Dollars	Percent	Percent
Northern:					
Illinois	009'6	69	17.84	27	20
Indiana	4,700	7.4	17.73	K	22
Iowa	8,800	65	17.30	82	15
Minnesota	5,700	02	16.57	71	٥
Missouri	4,600	69	15.65	55	20
Nebraska	2,900	23	20.21	92	23
Ohio	4,000	82	18.00	89	35
Arkansas	3,450	26	13.68	63	41
100/	75.750	07	17 25	2	21
1003 average	42,500	69	16.29	12	na Da
	48,630	65	15.40	2	na

^{1/} States listed planted 71 percent of U.S. soybean acres in 1994. 2/ Preliminary. 3/ Based on data from farmers who used purchased seed. na = not available.

Source: 1994 Cropping Practices Survey, Economic Research Service and National Agricultural Statistics Service, USDA.

Table 3--Cotton seeding rates, seed cost per acre, percent of seed purchased, and treated with pesticide, 1994 1/

State	Acres planted 2/	Rate per acre	Cost per acre 3/	with purchased seed	treated with pesticide
	1,000	Pound	Dollars	Percent	Percent
Arizona	313	13	8.32	95	63
Arkansas	980	12	7.93	95	88
California	1,100	17	15.50	89	86
Louisiana	006	11	8.21	8	86
Mississippi	1,280	11	9.03	95	95
[exas	5,450	18	8.47	43	22
1994 average	10,023	16	67.6	99	62
1993 average	10,360	16	9.39	69	Br.
1992 average	10,200	16	8.74	7.4	na

1/ States listed planted 74 percent of U.S. upland cotton acres in 1994. 2/ Preliminary. 3/ Based on data from farmers who used purchased seed. na = not available.

Table 4--Fall potato seeding rates, seed cost per acre, percent of seed purchased, and treated with pesticide, 1994 1/

State	Acres planted 2/	Rate	Cost per acre 3/	with purchased seed	treated with pesticide
	1,000	Cwt	4	Percent	Percent
Colorado	7.4	25	263	25	55
Idaho	410	21	173	2	91
Maine	78	22	210	72	24
Michigan	777	19	226	88	77
Minnesota	7.4	17	177	06	2
New York 4/	23	22	254	78	28
North Dakota	133	17	173	91	91
Oregon	54	22	274	91	76
Pennsylvania	19	20	252	76	23
Washington	152	54	284	98	8
Wisconsin	K.	50	233	87	33
1994 average	1,134	21	210	81	81
1993 average	1,469	22	202	88	na
1992 average	1,058	50	141	88	na

^{1/} States listed planted 93 percent of the fall potato acreage in 1994, 2/ Preliminary. 3/ Based on data from those farmers who used purchased seed. 4/ Excludes Long Island. na = not available.

Source: 1994 Cropping Practices Survey, Economic Research Service and National Agricultural Statistics Service, USDA.

Table 5--Spring and durum wheat seeding rates, seed cost per acre, percent of seed purchased, and treated with pesticide, 1994 1/

Spring: North Dakota 1,000 Pounds Dollars Percent Percent North Dakota 3,450 66 5.33 25 88 North Dakota 2,100 98 9.48 34 58 South Dakota 17,250 95 10.11 38 62 1992 average 17,350 91 8.39 41 na Durum: North Dakota 2,450 103 12.60 37 50 1992 average 2,450 103 12.60 37 50 1993 average 1,950 100 7.69 40 na 1992 average 2,200 96 7.56 36 na	States	Acres planted 2/	Rate per acre	Cost per acre 3/	Acres with purchased seed	Seed treated with pesticide
ota 2,600 109 12.42 56 a 3,450 66 5.33 25 Dakota 9,100 101 10.45 38 erage 17,250 95 10.11 38 erage 17,350 91 8.39 41 Dakota 2,450 103 12.60 37 erage 2,450 100 7.69 40 erage 2,200 96 7.56 36		1,000	Pounds	Dollars	Percent	Percent
nna 3,450 66 5.33 25 1 Dakota 9,100 101 10.45 38 1 Dakota 2,100 98 9.48 34 17,250 95 10.11 38 16,950 93 8.54 40 17,350 91 8.39 41 1 Dakota 2,450 103 12.60 37 1 Nerage 2,450 100 7.69 40 1,950 100 7.69 40 1,950 96 7.56 36	pring: Minnesota	2,600	109	12.42	56	77
Dakota 9,100 101 10.45 38 Dakota 2,100 98 9.48 34 NVERAGE 17,250 95 10.11 38 NVERAGE 16,950 93 8.54 40 NVERAGE 17,350 91 8.39 41 NVERAGE 2,450 103 12.60 37 NVERAGE 2,200 96 7.56 36	Montana	3,450	99	5.33	25	88
Nerage 17,250 95 10.11 38 40 10.12 10.13 1	North Dakota	9,100	101	10.45	38	99
Nerage 17,250 95 10.11 38 40 40 40 41 41 41 41 41 41 41 41 41 41 41 41 41	South Dakota	2,100	88	87.6	34	38
Nerage 16,950 93 8.54 40 Nerage 17,350 91 8.39 41 Dakota 2,450 103 12.60 37 Nerage 2,450 100 7.69 40 Nerage 2,200 96 7.56 36	994 average	17,250	95	10.11	38	62
Nerage 17,350 91 8.39 41 Dakota 2,450 103 12.60 37 Nerage 2,450 100 7.69 40 Nerage 2,200 96 7.56 36		16,950	93	8.54	07	na
Nerage 2,450 103 12.60 37 12.60 37 12.60 37 12.60 37 12.60 37 12.60 37 12.60 36 1,950 100 7.69 40 100 7.56 36		17,350	91	8.39	1.7	na
average 2,450 103 12.60 37 average 1,950 100 7.69 40 average 2,200 96 7.56 36		057 6	103	12 60	7.5	50
average 2,450 103 12.50 37 average 1,950 100 7.69 40 average 2,200 96 7.56 36					; ;	
average 2,200 96 7.56 36	yyk average	1,950	200	7.69	07	oc ec
	992 average	2,200	%	7.56	36	na

1/ States listed planted 94 percent of U.S. spring wheat and 86 percent of U.S. durum wheat acres in 1994. 2/ Preliminary. 3/ Based on data from farmers who used purchased seed. na = not available.

corn seed by country of destination and volume Table 6--U.S. exports of

Country	1990	1991	1992	1993	1994	Change 93-94
			Metric tons	SI		96
Canada	4,076	7,561	8,192	8,678	15,421	78
Mexico	10,329	7,963	12,472	15,750	16,453	7
France	999'6	10,953	13,859	8,177	6,188	-24
Germany	1,796	8,822	1,670	2,750	2,338	-15
Spain	4,132	2,076	2,853	2,492	700,4	61
Italy	20,889	21,773	23,955	14,178	11,782	-17
Wetherlands	2,437	10,354	2,791	4,834	7,977	65
Greece	1,828	4,072	3,263	3,768	5,092	35
Romania	1,050	2,532	191	132	7	95
USSR	2,459	3,569	353	0	0	0
Turkey	29	171	388	1,798	338	-81
Japan	1,431	1,491	1,960	1,071	1,730	9
Subtotal	60,152	81,337	71,947	63,628	71,330	12
110						
countries	70.366	93.722	78,509	88,729	105,296	19
000		-				

Source: U.S. Department of Agriculture, Foreign Agricultural Service.

Table 7--Winter wheat seeding rates, seed cost per acre, percent of seed purchased, and treated with pesticide, 1994 1/

	Acres	Rate	Cost	with	treated
States	harvested	acre	acre 2/	seed	pesticide
	1,000	lbs.	Dollars	Percent	Percent
Colorado	2,550	24	3.57	07	1
Idaho	062	88	11.12	69	2
Illinois	006	113	17.98	26	57
Kansas	11,400	63	5.85	32	52
Missouri	1,100	120	13.50	26	27
Montana	1,850	59	6.17	53	8
Nebraska	2,100	65	6.30	31	11
Ohio	1,180	134	17.23	58	82
Oklahoma	5,300	92	6.16	27	21
Oregon	870	K	8.58	02	16
South Dakota	1,350	72	5.66	41	•
Texas	2,900	2	6.61	36	38
Washington	2,300	63	7.26	80	89
1994 average	34,590	71	7.68	39	36
1993 average	37,210	22	8.25	07	ne ne

1/ Preliminary. States listed harvested 84 percent of U.S. winter wheat acres in 1994. 2/ Based on data from farmers who used purchased seed. na = not available. 1994 Cropping Practices Survey, Economic Research Service and National Agricultural Statistics Service, USDA. Source:

Table 8--Seed use for major U.S. field crops 1/

Crop	1989/90	1990/91	1991/92	1992/93	Preliminary	Projected	1994/95
			000'1	00 tons			% change
Corn	529	240	299	528	563	246	ņ
Sorghum	36	39	84	39	36	36	0
Soybeans	1,664	1,701	1,705	1,726	1,914	1,858	-3
Barley	324	350	310	317	290	288	T
Jats	374	306	290	285	243	272	12
Meat	3,009	2,709	2,811	2,778	2,889	2,940	2
lice	180	180	195	190	210	200	-5
Cotton 2/	76	110	120	115	117	118	-
Total	6,210	5,935	6,040	5,978	6,262	6,258	0.1

Source: U.S. Department of Agriculture, Economic Research Service.

Table 9--U.S. imports of corn seed by volume

Country	1990	1991	1992	1993	1994	Change 93-94
			-Metric to	ons		%
Canada Argentina Chile Hungary Subtotal	8,010 511 4,509 881 13,911	6,857 138 3,406 0 10,401	6,674 4,821 14,129 391 26,015	8,328 3,787 8,149 171 20,435	14,121 3,630 17,094 597 35,442	69 -4 109 249 73
Total all countries	13,996	10,978	26,809	22,969	37,557	64

Source: U.S. Department of Agriculture, Foreign Agricultural Service.

Table 10--U.S. exports of soybean seed by volume

Country	1990	1991	1992	1993	1994	Change 93-94
			Metric ton	s		%
Canada Mexico France Italy Turkey Japan Subtotal	449 36,731 4,827 55,937 2,836 2,325 103,104	425 4,827 4,272 65,571 1,838 6,947 83,880	1,178 32,674 603 34,500 7 7,341 76,303	4,485 19,472 2,778 27,764 14 7,439 61,952	2,327 8,891 3,312 15,711 4 9,654 39,899	-43 - 7 30
Total all countries	106,991	91,004	83,585	68,891	47,964	-30

Source: U.S. Department of Agriculture, Foreign Agricultural Service.

Table 11--U.S. exports and imports of seed for planting

Item	1990	1991	1992	1993	1994	Change 93-94
			\$ mi	llion		%
Exports:						
Forage	104	101	114	116	89	-23
Vegetable	176	220	221	218	240	10
Flower	13	14	19	19	22	16
Corn 1/	138	181	171	168	181	8
Grain sorghum	27	28	34	34	20	-41
Soybean	45	41	36	28	23	-18
Tree/shrub	2	2	3	2	2	0
Sugarbeet	2	3	3	3	4	33
Other	81	82	68	31	41	32
Total	588	672	669	619	621	0.3
Imports:						
Forage	35	30	45	45	39	-13
Vegetable	60	79	82	83	85	2
Flower	23	24	27	31	35	13
Corn 2/	18	15	35	29	44	51
Tree/shrub	2	2	2	2	1	50
Other	9	14	15	17	23	35
Total	147	164	206	208	227	9
Trade balance	441	508	469	411	394	-4

1/ Not sweet, not food aid. 2/ Certified.

Source: U.S. Department of Agriculture, Foreign Agricultural Service.

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